

# Netflix Data Analysis

The word "NETFLIX" is displayed in a bold, red, sans-serif font. The letters are slightly shadowed, giving them a three-dimensional appearance as if they are floating above a dark surface. The background is a solid black rectangle.

# Scope of the Project

**Analyze from data and recommend best TV shows to users, based on self & others behavior.**



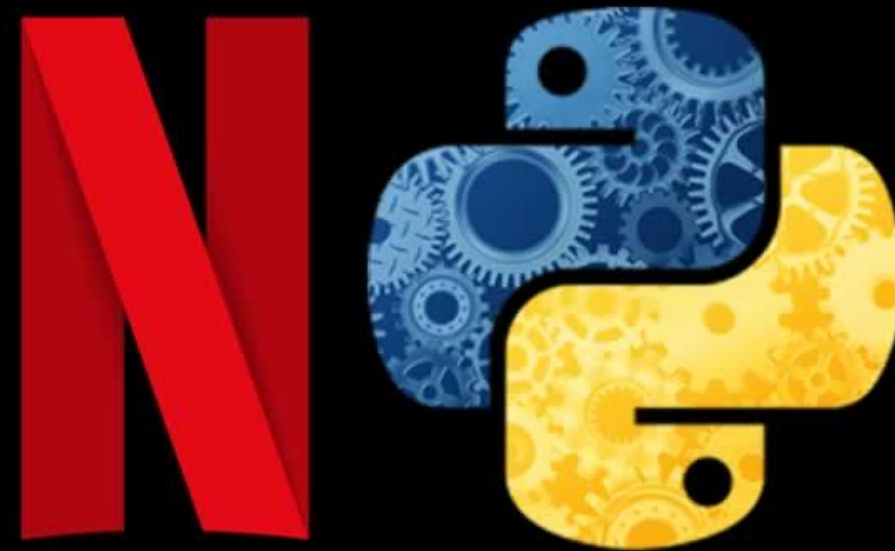
# OBJECTIVE

- Understanding what content is available on Netflix.
- Understanding the similarities between the content.
- Understanding the network between actors and directors.
- What exactly Netflix is focusing on.

# Netflix Data Analysis with Python

04

**The dataset used for the Netflix data analytics task consists of TV shows and movies streamed on Netflix as of 2019.**



# Importing Libraries

```
import numpy as np
import pandas as pd
import matplotlib
import matplotlib.pyplot as plt
import seaborn as sns
```

Importing the libraries required for analysis

# Importing Dataset

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```
#Importing Dataset
netflix_df = pd.read_csv("netflix_titles.csv")
```

```
netflix_df.head()
```

	show_id	type	title	director	cast	country	date_added	release_year	rating	duration	listed_in	description
0	s1	Movie	Dick Johnson Is Dead	Kirsten Johnson	NaN	United States	September 25, 2021	2020	PG-13	90 min	Documentaries	As her father nears the end of his life, filmm...
1	s2	TV Show	Blood & Water	NaN	Ama Qamata, Khosi Ngema, Gail Mabalane, Thaban...	South Africa	September 24, 2021	2021	TV-MA	2 Seasons	International TV Shows, TV Dramas, TV Mysteries	After crossing paths at a party, a Cape Town t...
2	s3	TV Show	Ganglands	Julien Leclercq	Sami Bouajila, Tracy Gotoas, Samuel Jouy, Nabi...	NaN	September 24, 2021	2021	TV-MA	1 Season	Crime TV Shows, International TV Shows, TV Act...	To protect his family from a powerful drug lor...
3	s4	TV Show	Jailbirds New Orleans	NaN	NaN	NaN	September 24, 2021	2021	TV-MA	1 Season	Docuseries, Reality TV	Feuds, flirtations and toilet talk go down amo...
4	s5	TV Show	Kota Factory	NaN	Mayur More, Jitendra Kumar, Ranjan Raj, Alam K...	India	September 24, 2021	2021	TV-MA	2 Seasons	International TV Shows, Romantic TV Shows, TV ...	In a city of coaching centers known to train l...

The dataset contains over 6234 titles, 12 descriptions

# Data Profiling and Cleaning

```
#Data Cleaning
```

```
print(netflix_df.isnull().any())
```

show_id	False
type	False
title	False
director	True
cast	True
country	True
date_added	True
release_year	False
rating	True
duration	True
listed_in	False
description	False
dtype:	bool

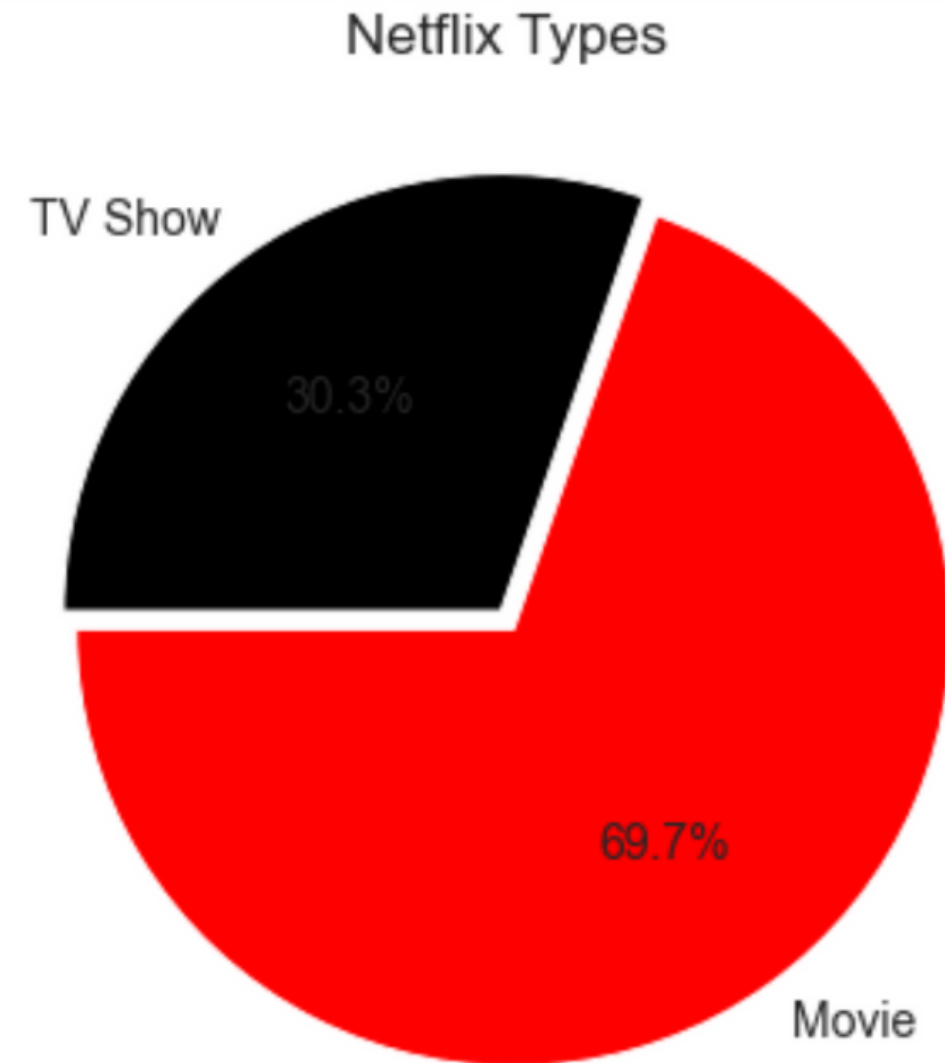
```
netflix_df.isnull().any()
```

show_id	False
type	False
title	False
director	False
cast	False
country	False
date_added	False
release_year	False
rating	False
duration	False
listed_in	False
description	False
dtype:	bool

# Exploratory Analysis

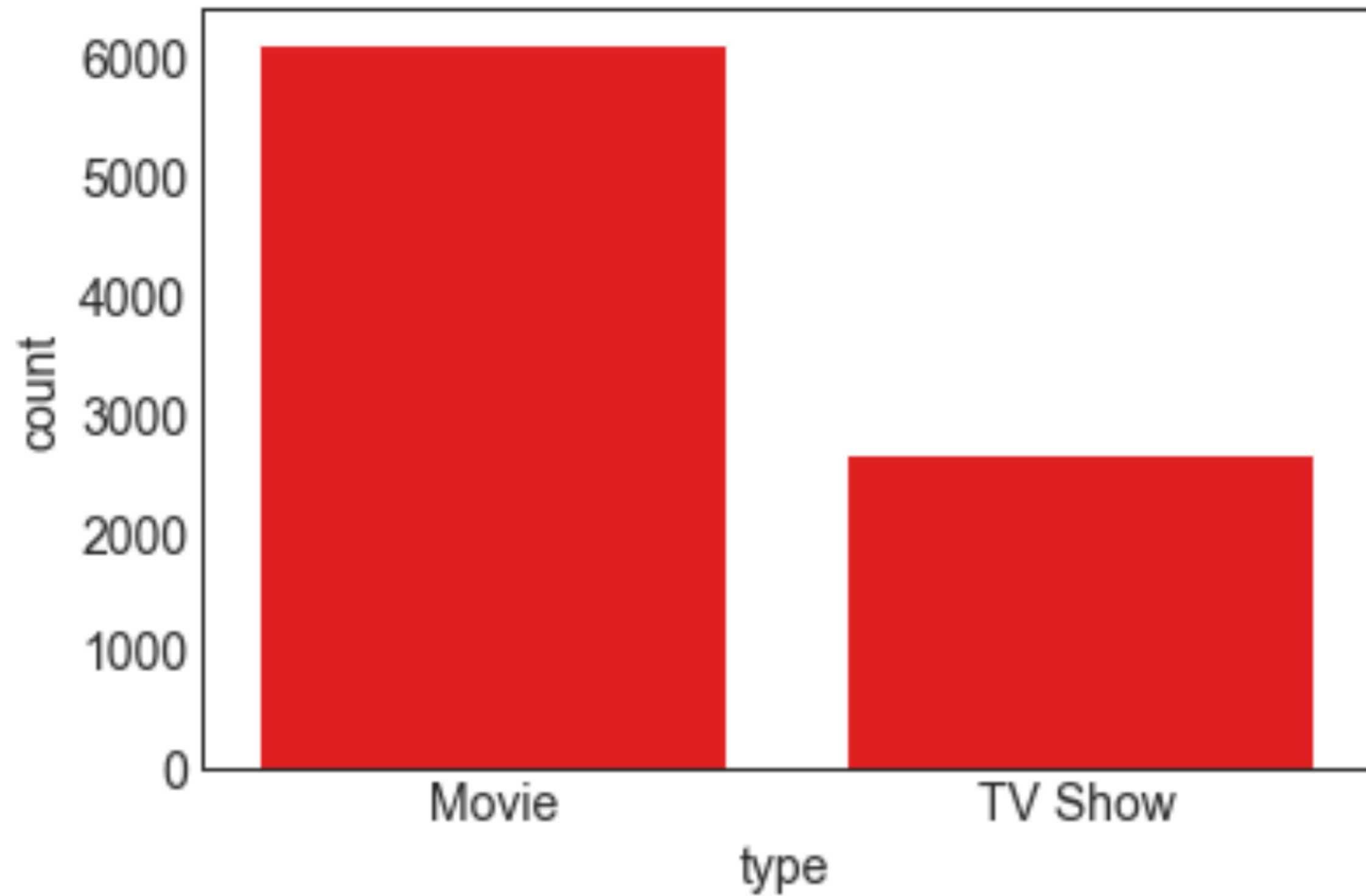
08

Analysis entire Netflix dataset consisting of both movies and shows.



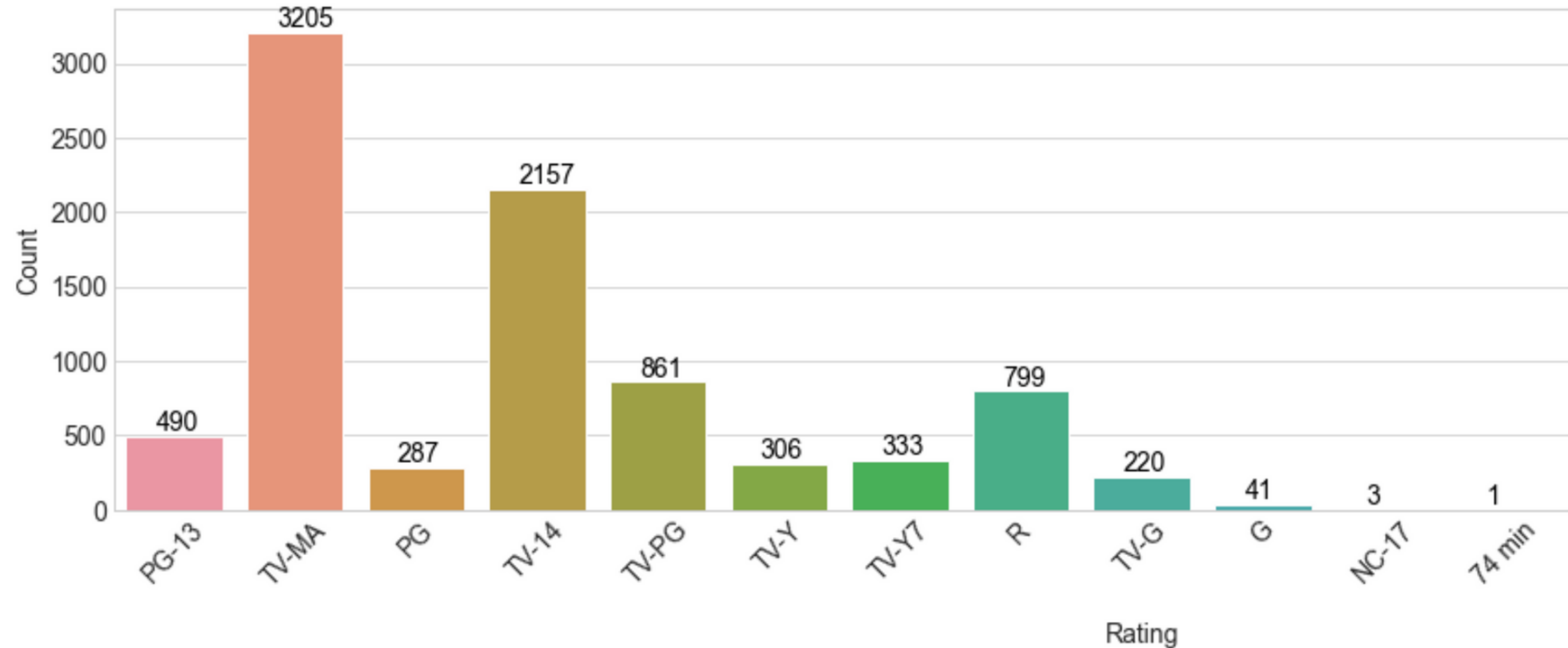
So there are 69.7% movies and 30.3% TV shows, with movies being the majority.



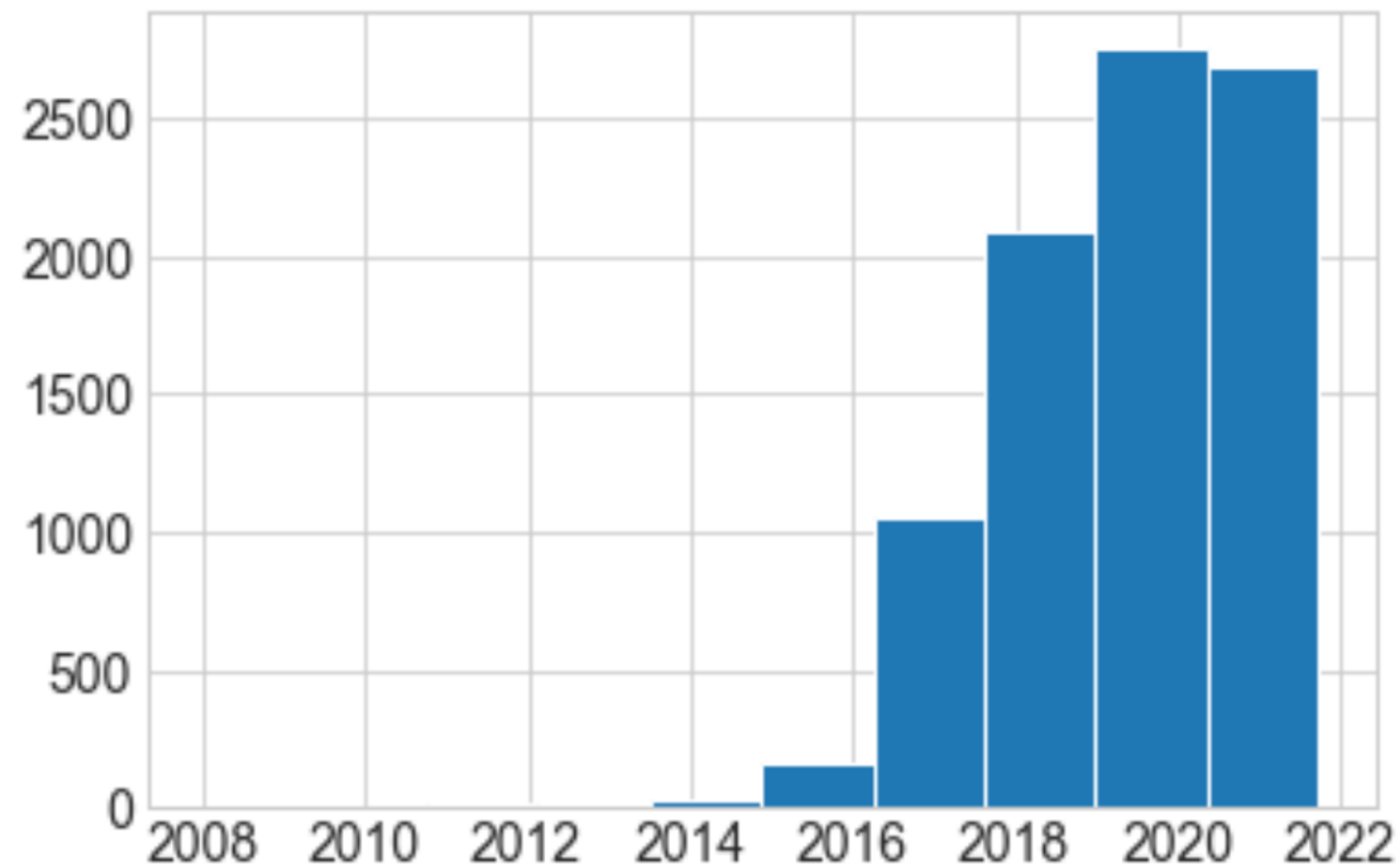


There are about 5,000+ movies and almost 2,000 TV shows

# Ratings in each category for movies and TV shows<sup>10</sup>

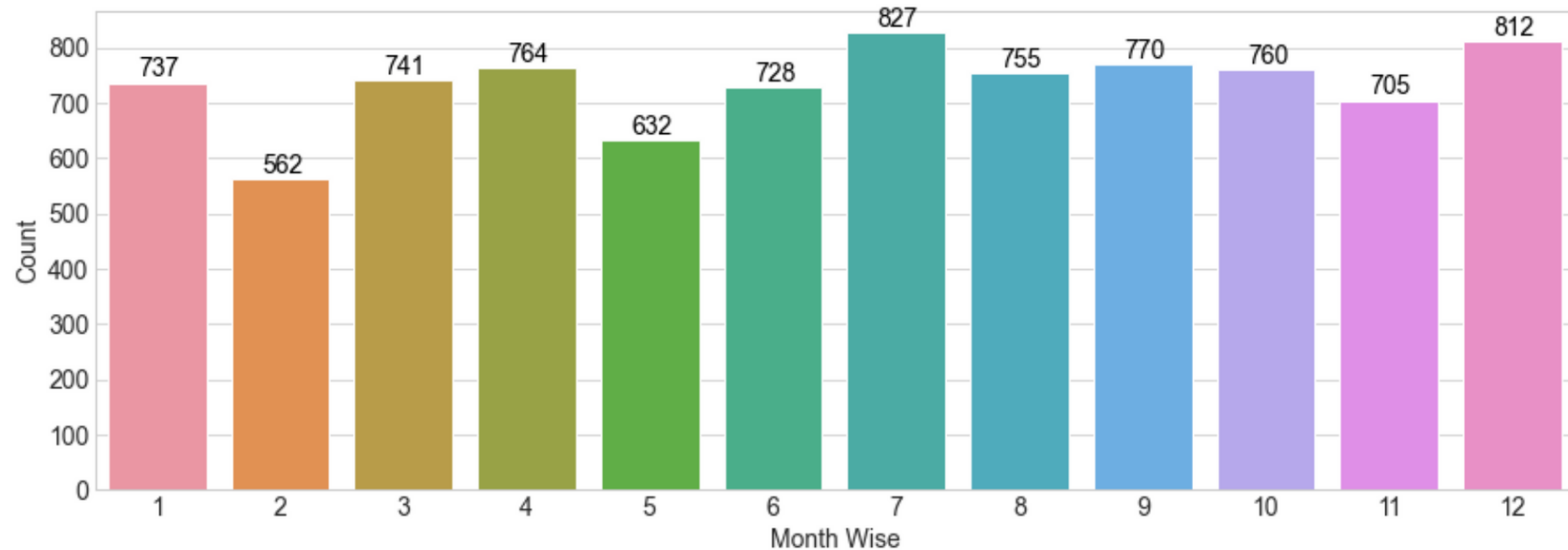


# Amount of Content as a Function of Time



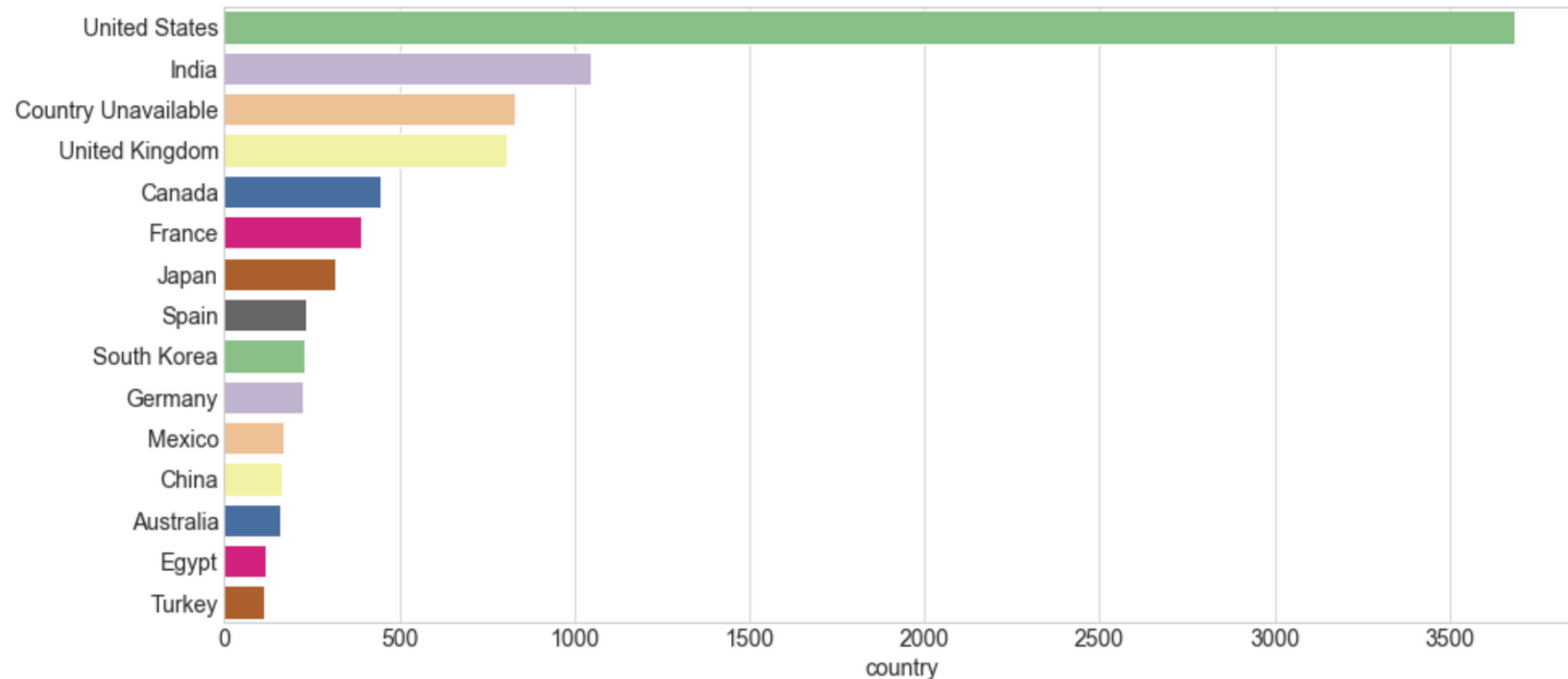
At the year of 2018-2020, Netflix has produced more content

# Number of movies/TV shows added month wise



Netflix has added more content in the month of July

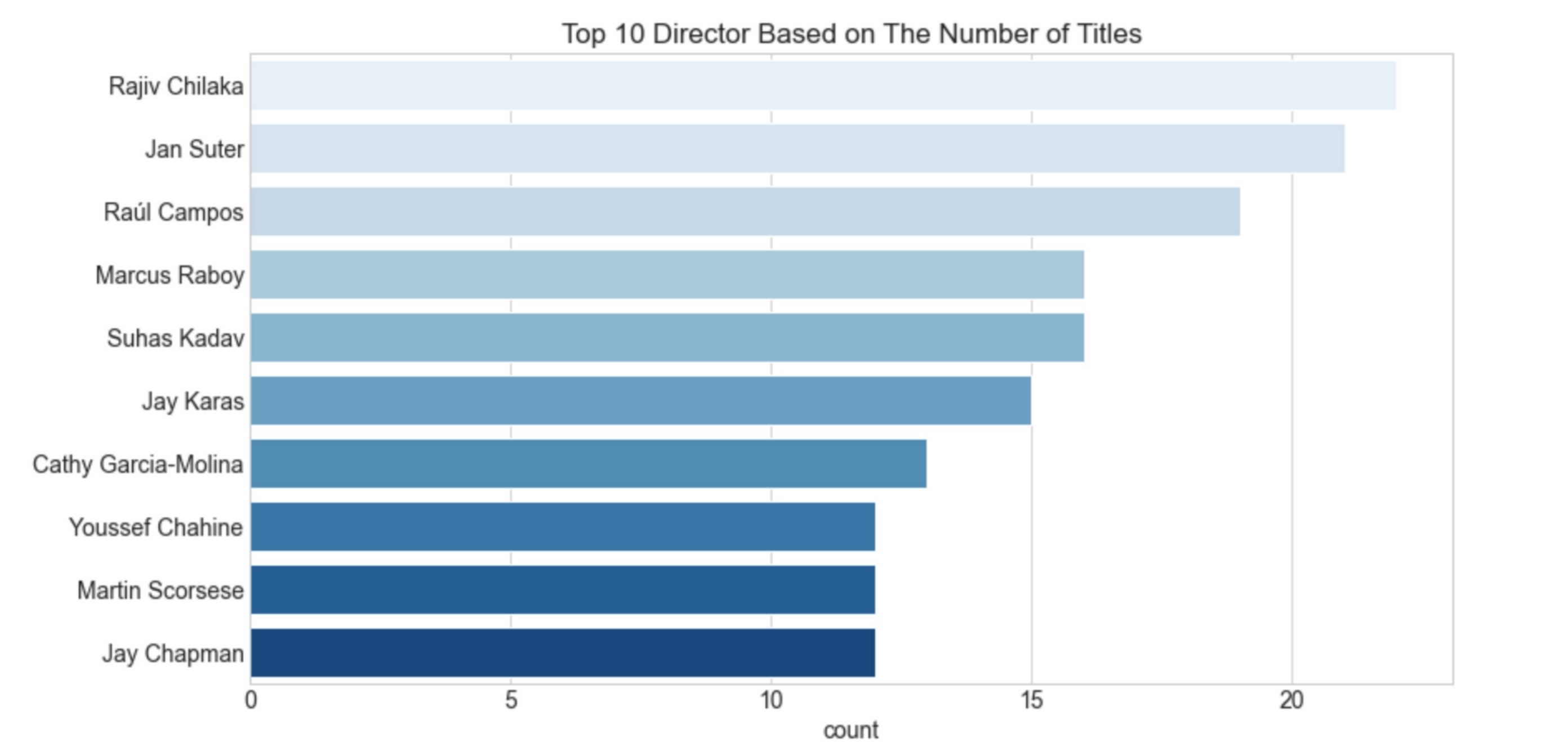
# Top 15 countries with most number of movies/TV shows



United States has the most number of Movies/TV shows

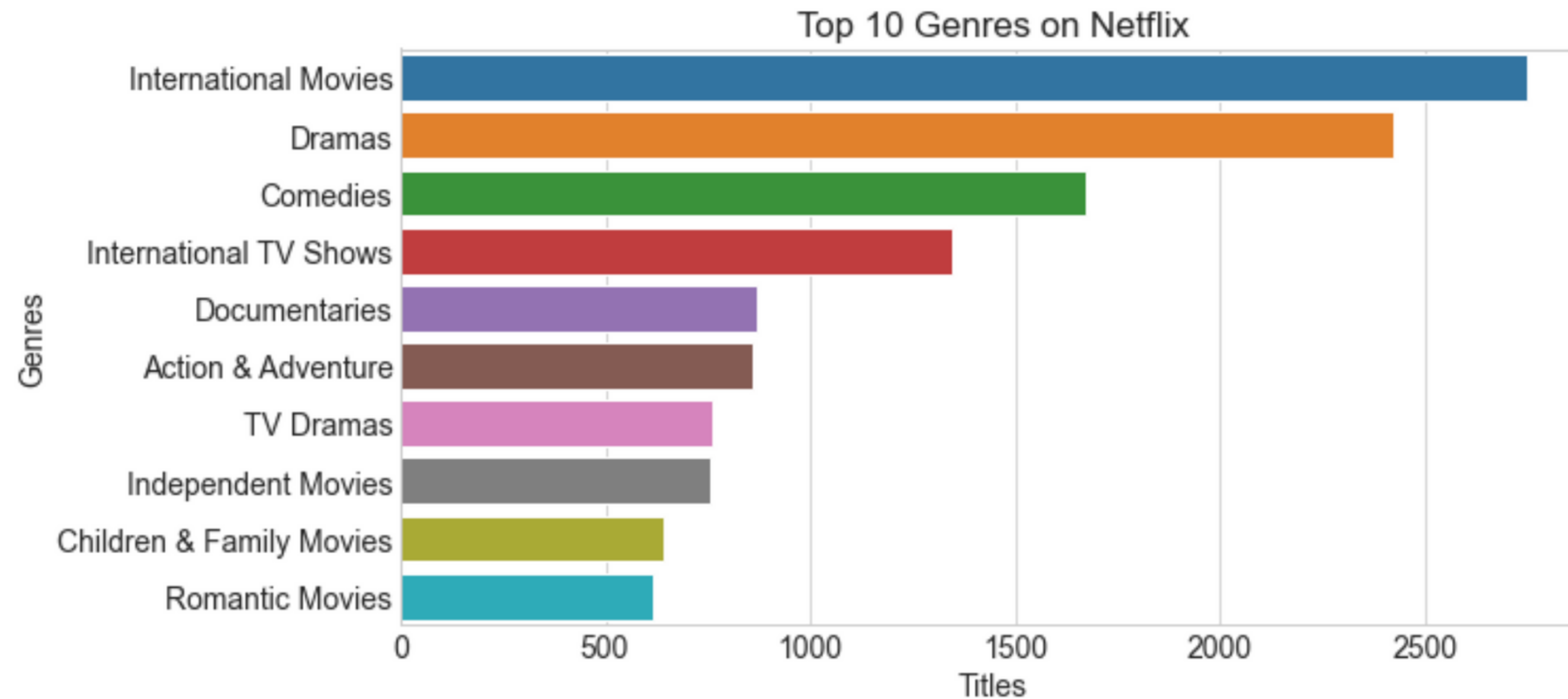
# Top 10 Directors based on Number of Title

14



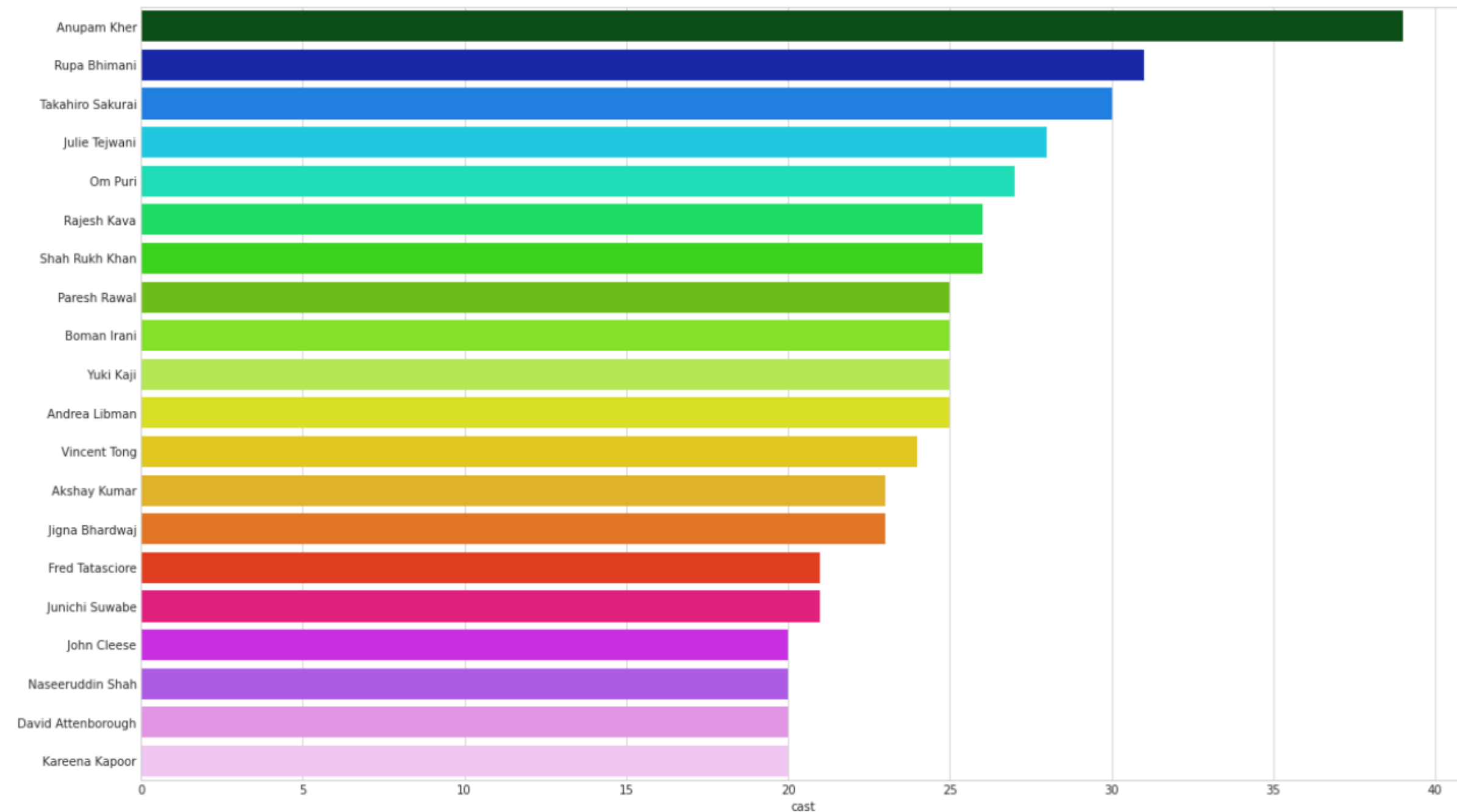
# Top 10 Genres on Netflix

15



# Top 20 Actors who involved in most of Movies/TV shows

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# CONCLUSION

Netflix, a giant streaming platform has made it big using big data analytics. Netflix is one of the most prominent examples of how advancements in technology have helped brands like Netflix to grow into becoming famous and successful.

